

Poster #	Title	Author List	Organization
BP1	DOE's Lithium-ion Cell Fabrication Facility	Andrew N. Jansen, Bryant J. Polzin, Sun-Ho Kang, and Dennis W. Dees	Argonne National Laboratory
BP2	Exploratory Research of Non-aqueous Flow Batteries for Renewable Energy Storage	Fikile Brushett, Andrew Jansen, John Vaughey, Zhengcheng Zhang, and Fulya Dogan	Argonne National Laboratory
BP5	Polymer-Gel Electrolyte for Secondary Lithium Ion Batteries	Robert B. Moore and Scott J. Forbey	Virginia Tech
BP6	Mesoporous hollow carbon capsules as an efficient anode electrode for ultra high Li storage	Min-Sik Kim, Daesoo Yang, Min Young Song, Yun Kyung Kim and Jong-Sung Yu	Korea University
BP8	High Performance Li-air Battery System: from Carbon Structure to Electrolyte	Jie Xiao, Wu Xu, Jianzhi Hu, Dehong Hu, Gordon L. Graff, Jun Liu and Jason Zhang	Pacific Northwest National Laboratory
BP9	Amorphous Vanadium Penoxide as Negative Electrode for Lithium-ion Batteries	Oh B. Chae, Jisun Kim, Jun H. Ku, Ji heon Ryu* and Seung M. Oh	Seoul National University & Korea Polytechnic University
BP10	Degradation Mechanisms in the High-voltage LiNi0.5Mn1.5O4 Electrode at Elevated	Taeho Yoon, Sangjin Park, Wonchang Choi, Yoon-Sok Kang, Jin-Hwan Park	Seoul National University & Korea Polytechnic University
BP11	Three-dimensional modeling of the thermal behavior of a lithium-ion battery cell	Ui Seon Kim, Jaeshin Yi, Chee Burn Shin, Taeyoung Han, Seongyang Park	GMR&D Center, GM Korea
BP12	Three-dimensional modeling of the thermal behavior of a lithium-ion battery pack and comparison with experimental data	Jaeshin Yi, Ui Seong Kim, Chee Burn Shin, Young-jin Hong , Chisu Kim	Ajou University
BP13	Atomic Layer Deposition of Protective Coatings on Lithium Ion Battery Anodes	David J. Comstock, Jeffrey W. Elam	Argonne National Laboratory
BP14	XAFS and TEM Studies of Layered Lithium-Manganese Oxide Based Cathode Materials for Lithium-Ion Technologies	J. Bareño, J.G. Wen, S.V. Pol, C.H. Lei, S.H. Kang, I. Petrov, M. Balasubramanian, D.P. Abraham	Argonne National Laboratory, University of Illinois
BP15	Development of ANL- 2 redox shuttle for overcharge protection of lithium-ion batteries	Lu Zhang, Zhengcheng Zhang, Nasim Azimi, Khalil Amine	Argonne National Laboratory
BP16	Development of SEI additives for lithium-ion batteries	Lu Zhang, Zhengcheng Zhang, Peng Du, Kirlous H.A. Henin, & Khalil Amine	Argonne National Laboratory

BP17	HIGH CAPACITY ANODE MATERIALS FOR LITHIUM ION BATTERY	Junbing Yang, Jianguo Ren, Khalil Amine	Argonne National Laboratory
BP18	Electrochemical performance of high-capacity Li <sub>1.2</sub> Ni <sub>0.3</sub> Mn <sub>0.6</sub> O <sub>2.1</sub> cathode for lithium-ion batteries	Huiming Wu, Ilias Belharouak, Yang-Kook Sun and Khalil Amine	Argonne National Laboratory & Hanyang University
BP19	Improvement of the rate capability of the composite cathode xLi <sub>2</sub> MnO <sub>3</sub> -(1-x)LiM'O <sub>2</sub> (M = Mn, Ni, and Co) materials under thermal treatment"	Ali Abouimrane, Owen C. Compton, Haixia Deng, Ilias Belharouak	Argonne National Laboratory & Northwestern University
BP20	New polymer cathode material based on Redox shuttles	Wei Weng, Zhengcheng Zhang, & Khalil Amine	Argonne National Laboratory
BP21	Siloxane Functionalized ionic liquid based electrolytes	Wei Weng, Zhengcheng Zhang, & Khalil Amine	Argonne National Laboratory
BP22	Ni <sub>0.3</sub> Mn <sub>0.7</sub> CO <sub>3</sub> Precursor for High Capacity Cathodes	Dapeng Wang,, Ilias Belharouak, Gary M. Koenig Jr., Guangwen Zhou, and Khalil Amine	Argonne National Laboratory & State Univ. of New York at Binghamton
BP23	Novel titanate nanotubes with outstanding rate capabilities and long cycle life	Rui Xu, Junrong Li, Zilong Tang, Zhongtai Zhang, Ilias Belharouak, and Khalil Amine	Argonne, China Astronaut Center,, & Tsinghua University
BP24	TESTING THE TESTS. SOME EFFECTS OF PHEV PERFORMANCE AND LIFE TESTS	I. Bloom, V. Utgikar, and J. Belt	Argonne, University of Idaho, & Idaho National Laboratory
BP25	Predicting the Cost and Energy Density of Lithium-Ion Batteries for Hybrid, Plug-in and Full Electric Vehicles	Kevin G. Gallagher, Paul A. Nelson, Ira Bloom, Danilo J. Santini, and Dennis W. Dees	Argonne
BP26	Multicomponent Metal-Oxide Particles with Tailored Compositions for Lithium-ion Battery Cathode Materials	Gary M. Koening Jr., I. Belharouak, H. Wu, H. Deng, and K. Amine	Argonne
BP27	Cross-linked Gel Polymer Electrolytes Containing Ionic Liquid for Rechargeable Lithium Lithium Batteries with Enhanced Safety	Jin Hee Kim, Ji-Ae Choi, Ye Sun Yun, Yang-Kook Sun, Dong-Won Kim	Hanyang University
BP28	Nanostructured Materials for Lithium Battery Applications	M. Bettge, S. Burdin, S. MacLaren, I. Petrov, E. Sammann, D.P. Abraham	Argonne, Univ. of Illinois at Urbana-Champaign
BP29	Electrochemical Characteristics of Fine-Sized of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Powders Prepared by Spray Pyrolysis	Seo Hee Ju, Dong-Won Kim, Yun Chan Kang	Kunkuk University, Hanyang Univesity
BP30	High Energy X-ray Diffraction for Advanced Material Development	Zonghai Chen, Yang Ren, and Khalil Amine	Argonne

BP31	Transition Metal – Nitrogen – Carbon Composite as Cathode Catalyst for in Li-Air Battery Application	Jianglan Shui, Naba Karan, Mahalingam Balasubramanian and Di-Jia Liu	Argonne
BP32	HIGH THROUGHPUT METHODS FOR THE DISCOVERY AND DEVELOPMENT OF IMPROVED MATERIALS FOR LITHIUM ION BATTERIES	Brian E. Hayden, Christopher E. Lee, Denis Pasero, Duncan C.A. Smith and Chihiro Yada	Ilika Technologies Ltd., Toyota Motor Corporation
BP33	Room-Temperature Ionic Liquids (RTILs) for Sulfur-Based Lithium Secondary Batteries	Young Jin Choi, Ki Won Kim, Aleksandar Matic, Per Jacobsson	Chalmers University of Technology, Gyeongsang National University
BP34	Evaluation of Overcharge Protection Redox Shuttle Electrolyte Additive for Lithium Ion Batteries	W. Lu, N. Liu, L. Zhang, J. Zhang, T. Dzwiniel, K. Pupek, K. Amine, G. Krumdick, and D. Dees	Argonne
BP35	Effect of Manganese and Cobalt content on the Electrochemical and thermal Properties of Layered $\text{Li}[\text{Ni}0.52\text{Co}0.16+\text{xMn}0.32-\text{x}]\text{O}_2$ Cathode Materials for Lithium Secondary Batteries	W.G Kim and Y. K. Sun	Hanyang University
BP36	Enhanced electrochemical performance of $\text{LiNi}0.8\text{Co}0.15\text{Al}0.05\text{O}_2$ cathode material by surface modification	D.-J. Lee, Bruno Scrosati, and Y.-K. Sun	Hanyang University, University of Rome Sapienza
BP37	Ionic Liquid-based Polymer electrolyte for Lithium rechargeable Batteries	Jae-Kwang Kim, Jou-Hyeon Ahn, and Aleksandar Matic, and Per Jacobsson	Chalmers University of Technology & Gyeongsang National University
BP38	NANO-SCALED ZINC DOPED SPINEL LITHIUM MANGANESE OXIDE CATHODE ACTIVE MATERIALS FOR RECHARGEABLE LITHIUM BATTERIES	Chang Woo Lee, G. Paruthimal Kalaignan, Kumaran Vediappan, Yong Nam Jo	Kyung Hee University & Alagappa University
BP39	Atomic Layer Deposition Coating for Improved Electrical Energy Storage	A.C. Dillon, Y.S. Jung, C. Ban, P. Lu, S.J. Harris, A.S. Cavanagh, S.M. George and S.H. Lee	National Renewable Energy Laboratory, General Motors Research & Development Center, University of Colorado at Boulder

BP40	Lithium Ion Capacitor: A Comparison of Negative Electrode Lithiation Methods	Gerald Gourdin, Patricia H. Smith, Thomas Jiang, Thanh N. Tran, Deyang Qu	University of Massachusetts Boston
BP41	High Rate Capability for Microscale $\text{Li}_4\text{Ti}_5\text{O}_{12}$ using Facile Carbon Coating Method	J. H. Kim, H. G. Jung, Bruno Scrosati, Khalil Amine and Y. K. Sun	Hanyang University, University of Rome Sapienza
BP42	Structural Analysis of Surface Modified $\text{Li}_4\text{Ti}_{512}$ Electrode	KyungSu Kim, Hidekazu Ido, Kouta Suzuki, Sou Taminato, Mamoru Komo, Hiroaki Minamishima, Kazuhisa Tamura, Jun'ichiro Mizuki, Jin-young Son, Masaaki Hirayama, Ryoji Kanno	Tokyo Institute of Technology, Japan Atomic Energy Agency, Japan Synchrotron Radiation Research Institute
BP43	Life-Cycle Analysis for Lithium Ion Battery Production & Recycling	L. Gaines, J. Sullivan, A. Burnham, and I. Belharouak	Argonne
BP44	Layered Cathode Materials for Li-Ion Batteries Prepared Via Ion-Exchange Reactions	Michael Slater, Shawn Rood, Aaron Amdewahl, Donghan Kim, Sun-Ho Kang, Stephen Hackney and Christopher Johnson	Argonne, Michigan Technological University
BP45	Oxygen Permeable Membrane for Lithium Air Battery	Salma Rahman, Jianfang Chai, James P. Godschalk, Steven E. Keinath & Abhijit Sarkar	Michigan Molecular Institute
BP46	Co substituted $\text{Li}[\text{Ni}0.5-x\text{Co}2x\text{Mn}1.5-x]\text{O}_4$ Prepared by co-precipitation method	Min-Joon Lee, Yang-Kook Sun	Hanyang University
BP47	Study on Morphology and Electrochemical Properties for High-Voltage Cathode Materials for Lithium-Ion Batteries	Seo Hee Ju, Dong-Won Kim	Hanyang University
BP48	Synthesis and Electrochemical Characterization of Solid Polymer Electrolytes for Solid-State Lithium Polymer Batteries	Ji-Ae Choi, Yongku Kang, Sung-Man Lee, Dong-on Kim	Hanyang University, Korea Research Institute of Chemical Technology, Kangwon Nat'l Univ.
BP49	Electrochemical properties of carbon-LiMnPO <sub>4</sub> nano-composite cathode for lithium ion batteries	S-M Oh, B. Scrosati, K. Amine, and Y.-K. Sun	Hanyang University, University of Rome "La Sapienza", Argonne National Laboratory

BP50	Cycling Performances of Lithium-Ion Batteries Assembled with Ceramic-Coated Separator Using Core-Shell Structured Silica Particles	Won-Kyung Shin, Yoon-Sung Lee, Dong-Won Kim	Hanyang University
BP51	Particle size-dependent, tunable porous structure of a SiO <sub>2</sub> /poly(vinylidene fluoride-hexafluoropropylene)-coated poly(ethylene terephthalate) nonwoven composite separator for a lithium-ion battery	Eun-Sun Choi, Sang-Young Lee	Kangwon National University
BP52	A facile approach to fabricate self-standing gel polymer electrolytes for flexible lithium-ion batteries by exploitation of UV-cured trivalent/monovalent acrylate polymer matrices	Eun-Hye Kil, Hyo-Jeong Ha, Sang-Young Lee	Kangwon National University
BP53	Fundamental Studies of Interfacial Phenomena on Sn Anodes	Robert Kostecki, Ivan T. Lucas, Elad Pollak	Lawrence Berkeley National Laboratory
BP54	In-situ S/TEM Characterization of Electrode/Electrolyte Interactions for Energy Storage Applications	R.R. Unocic, L.A. Adamczyk, N.J. Dudney, P. Ganesh, P. Kent, D. Jiang, K.L. More	Oak Ridge National Laboratoary